

IN THE CLAIMS

1. (currently amended) A header assembly comprising:

an insulative housing comprising a plurality of walls defining an interior cavity; and

a plurality of contacts within said cavity and extending through one of said walls to an exterior of said housing for surface mounting to a circuit board, wherein said insulating housing comprises at least one alignment rib extending on an exterior surface thereof, said contacts formed against said alignment rib and abutting said alignment rib, wherein when said contacts abut said alignment rib, said contacts are biased to ensure ~~thereby ensuring~~ coplanarity of said contacts for surface mounting to a circuit board.
2. (original) A header assembly in accordance with claim 1 wherein said housing comprises longitudinal side walls and lateral side walls, said alignment rib extending parallel to one of said longitudinal and lateral side walls.
3. (original) A header assembly in accordance with claim 1 wherein said housing comprises longitudinal side walls and lateral side walls and a pair of alignment ribs, said alignment ribs extending parallel to a respective one of said longitudinal and lateral side walls.
4. (original) A header assembly in accordance with claim 1 wherein said housing comprises longitudinal side walls and lateral side walls, said alignment rib extending parallel to each of said longitudinal side walls.
5. (original) A header assembly in accordance with claim 1 wherein said housing comprises longitudinal side walls, lateral side walls, and a bottom wall, said contacts extending through said bottom wall in a plurality of rows, said contacts in each of said plurality of rows abutting said alignment rib.
6. (original) A header assembly in accordance with claim 1 wherein said contacts are preloaded against said alignment rib.

7. (original) A header assembly in accordance with claim 1 wherein said contacts comprise a length, some of said contacts having a first length and some of said contacts having a second length, said first length greater than said second length, wherein each of said first length and said second length extends to said alignment rib.

8. (original) A header assembly in accordance with claim 1 wherein said contacts comprises staggered contacts of different lengths, each of said staggered contacts engaging said alignment rib.

9. (original) A header assembly in accordance with claim 1 further comprising a solder clip attached to one of said longitudinal and said lateral side walls, said solder clip comprising an engagement surface coplanar with said contacts when said contacts are abutted against said alignment rib.

10. (original) A header assembly in accordance with claim 1 wherein said contacts include rounded ends and said alignment rib comprises a crowned surface, said rounded ends engaging said crowned surface as said contacts are preloaded.

11. (currently amended) A header assembly comprising:

an insulative housing comprising a plurality of walls defining an interior cavity and a contact interface, and at least one alignment rib extending proximate said contact interface; and

a plurality of contacts having contact sections and solder tail sections, said contact sections located within said interior cavity, said solder tail sections extending exterior to said contact interface for surface mounting to a circuit board, wherein said solder tails abut said alignment rib and are preloaded against said alignment rib to flex a portion of said contacts against said alignment rib as said contacts are installed into said housing, thereby ensuring coplanarity of said solder tail sections for surface mounting to the circuit board.

12. (original) A header assembly in accordance with claim 11 wherein said contact sections extend substantially perpendicular to a bottom wall of said housing, and said solder tail sections extend obliquely to said bottom wall of said housing .

13. (original) A header assembly in accordance with claim 11 wherein said solder tail sections are flexed about said alignment rib.

14. (original) A header assembly in accordance with claim 11 wherein said housing comprises longitudinal side walls and lateral side walls, said alignment rib extending parallel to one of said longitudinal and lateral side walls.

15. (original) A header assembly in accordance with claim 11 wherein said alignment rib comprises a crowned surface, said solder tail sections abutting said crowned surface.

16. (original) A method of assembling a surface mount header assembly, the assembly including an insulative housing including a plurality of walls defining an interior surface, an exterior surface and a plurality of contact apertures extending therebetween, the housing further including an alignment rib extending on the exterior surface, the assembly further including a plurality of electrical contacts, the method comprising:

inserting the contacts through the contact apertures; and

flexing a portion of the contacts against the alignment rib as the contacts are inserted, thereby preloading the contacts against the alignment rib in a coplanar relationship with one another.

17. (original) A method in accordance with claim 16 further comprising

partially inserting the contacts through the housing to a first position;

bending the contacts relative to the exterior surface such that an end of each contacts is angled relative to the exterior surface, the angle of the bent contacts substantially equal among the contacts, the angled ends of the contacts separated from the alignment rib; and

further inserting the contacts through the contact apertures to a second position wherein the ends of the contacts are in an abutting relationship with the alignment rib.

18. (original) A method in accordance with claim 16 wherein said inserting the contacts comprises inserting the contacts in multiple rows such that the contacts are staggered relative to one another.

19. (original) A method in accordance with claim 16 wherein the housing includes a pair of alignment ribs on opposite sides of the housing, said further inserting comprising the contacts to a second position comprising positioning some of the contacts in abutting relationship to one of the alignment ribs and positioning other of the contacts in abutting relationship to the other alignment rib.

20. (original) A header assembly comprising:

an insulative housing having a mounting face and comprising an alignment rib extending along the mounting face and having a planar alignment edge; and

a plurality of contacts positioned relative to said housing, such that a mounting portion of each of said contacts abuts said alignment edge thereby ensuring coplanarity of said contacts.

21. (original) The header assembly of claim 20 further comprising at least one solder clip attached to said housing, said at least one solder clip having a planar mounting edge parallel to said alignment edge and spaced from said alignment edge a distance generally equal to a thickness of each of said plurality of contacts.

Remarks

The Office Action mailed March 07, 2005 has been carefully reviewed and the foregoing amendment has been made in consequence thereof.

Claims 1-21 are now pending in this application, of which claims 1 and 11 have been amended. It is respectfully submitted that the pending claims define allowable subject matter.

The rejection of Claims 1-9, 11-14, and 16-21 under 35 U.S.C. § 102(b) as being anticipated by Lin et al. et al. (U.S. Patent 5,451,158) is respectfully traversed.